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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.8°C and 26.6°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.4°C at 0700 hrs and 39.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 8.7hours and 6.0mm, respectively. At the center, about 13.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(1-5 June, 2019)**

**(Begusarai)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **7** | **10** | **10** | **5** | **10** | **Light rainfall,****Thunderstorm & lightning accompanied with gusty winds at 1-2 places during 1-3 June** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* Maize | Land preparation/Sowing |  Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination. |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Fodder crops | Sowing | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant is advised,  |
| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.8°C and 26.6°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.4°C at 0700 hrs and 39.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 8.7hours and 6.0mm, respectively. At the center, about 13.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

 **(Darbhanga)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **6** | **10** | **10** | **5** | **0** | **Light rainfall,****Thunderstorm & lightning accompanied with gusty winds at 1-2 places during 1-3 June** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* Maize | Land preparation/Sowing |  Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination. |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Fodder crops | Sowing | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant is advised,  |
| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.8°C and 26.6°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.4°C at 0700 hrs and 39.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 8.7hours and 6.0mm, respectively. At the center, about 13.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

 **(East Champaran)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **3** | **5** | **5** | **3** | **6** | **Light rainfall,****Thunderstorm & lightning accompanied with gusty winds at 1-2 places during 1-3 June** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* Maize | Land preparation/Sowing |  Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination. |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Fodder crops | Sowing | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant is advised,  |
| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.8°C and 26.6°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.4°C at 0700 hrs and 39.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 8.7hours and 6.0mm, respectively. At the center, about 13.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

 **(Gopalganj)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **0** | **3** | **5** | **3** | **0** | **Light rainfall,****Thunderstorm & lightning accompanied with gusty winds at 1-2 places during 1-3 June** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* Maize | Land preparation/Sowing |  Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination. |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Fodder crops | Sowing | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant is advised,  |
| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

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**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

 **(Madhubani)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **5** | **10** | **10** | **0** | **0** | **Light rainfall,****Thunderstorm & lightning accompanied with gusty winds at 1-2 places during 1-3 June** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* Maize | Land preparation/Sowing |  Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination. |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Fodder crops | Sowing | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant is advised,  |
| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.8°C and 26.6°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.4°C at 0700 hrs and 39.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 8.7hours and 6.0mm, respectively. At the center, about 13.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

 **(Muzaffarpur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **5** | **5** | **5** | **3** | **0** | **Light rainfall,****Thunderstorm & lightning accompanied with gusty winds at 1-2 places during 1-3 June** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* Maize | Land preparation/Sowing |  Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination. |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Fodder crops | Sowing | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant is advised,  |
| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.8°C and 26.6°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.4°C at 0700 hrs and 39.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 8.7hours and 6.0mm, respectively. At the center, about 13.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

 **(Samastipur)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **3** | **9** | **10** | **5** | **5** | **Light rainfall,****Thunderstorm & lightning accompanied with gusty winds at 1-2 places during 1-3 June** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* Maize | Land preparation/Sowing |  Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination. |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Fodder crops | Sowing | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant is advised,  |
| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.8°C and 26.6°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.4°C at 0700 hrs and 39.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 8.7hours and 6.0mm, respectively. At the center, about 13.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

 **(Saran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **0** | **0** | **4** | **2** | **0** | **Light rainfall,** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* Maize | Land preparation/Sowing |  Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination. |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Fodder crops | Sowing | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant is advised,  |
| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.8°C and 26.6°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.4°C at 0700 hrs and 39.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 8.7hours and 6.0mm, respectively. At the center, about 13.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

 **(Shivhar)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **3** | **5** | **5** | **0** | **0** | **Light rainfall,** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* Maize | Land preparation/Sowing |  Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination. |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Fodder crops | Sowing | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant is advised,  |
| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.8°C and 26.6°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.4°C at 0700 hrs and 39.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 8.7hours and 6.0mm, respectively. At the center, about 13.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

 **(Sitamarhi)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **3** | **10** | **10** | **2** | **5** | **Light rainfall,** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* Maize | Land preparation/Sowing |  Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination. |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Fodder crops | Sowing | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant is advised,  |
| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.8°C and 26.6°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.4°C at 0700 hrs and 39.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 8.7hours and 6.0mm, respectively. At the center, about 13.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

 **(Siwan)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **0** | **2** | **5** | **3** | **0** | **Light rainfall,** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* Maize | Land preparation/Sowing |  Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination. |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Fodder crops | Sowing | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant is advised,  |
| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.8°C and 26.6°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.4°C at 0700 hrs and 39.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 8.7hours and 6.0mm, respectively. At the center, about 13.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

 **(Vaishali)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **2** | **3** | **5** | **4** | **0** | **Light rainfall,** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
| *Kharif* Maize | Land preparation/Sowing |  Land preparation/sowing of *kharif* maize is advised. *Devki, Suwan, Shaktimaan-1, Shaktimaan-2, Rajendra shanker makka-3* and *Ganga 11* varieties are suitable for sowing in North Bihar. Application of 100 quintals of FYM, 30 kg Nitrogen, 60 kg Phosphorus and 50 kg potash per hectare is advised during land preparation. Before sowing, check the proper moisture in the soil. Lack of soil moisture results poor germination. |
| *Kharif* onion | Land preparation | Land preparation is advised for *kharif* onion. For healthy and strong seedlings, application of FYM/compost is advised during nursery preparation. *Agrifound Dark Red (ADR), N-53, Bhima super, Arka kalyan* are recommended varieties for sowing in North Bihar region. Farmers are advised to arrange the seeds from reliable sources.  |
| Turmeric | Sowing | Sowing of *Rajendra Sonia* and *Rajendra Sonali* varieties of turmeric is advised. Application of 25-30 tonnes of cow dung, 60-75 kg nitrogen,50-60 kg phosphorus,100-120 kg potassium and 20-25 kg zinc sulphate per hectare is advised during land preparation. The size of the seed should be around 30-35 gram which contains 4-5 buds. Seed materials should be sown at 30X20 cm apart maintaining a soil depth of 5-6cm. Seed treatment with 2.5 gram Diethane M-45 plus 0.1% bavistin/Kg of seed is advised. Sowing should be done after half an hour of seed treatment.  |
| Elephant foot yam | Sowing |  Complete the sowing of elephant foot yam at the earliest. *Gajendra* variety is recommended for sowing in North Bihar.  |
| Fodder crops | Sowing | Sowing of fodder crops such as *sorghum, maize* and *bajra* are advised. |
| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
| Litchi  | Harvesting | Ploughing of litchi orchard is advised after harvesting of litchi fruits. After ploughing, application of 60-80kg compost, 2.5 kg urea,1.5 kg Single Super Phosphate (SSP), 1.3 kg Murate of potash and 50 gram borax per adult litchi plant is advised,  |
| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**

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| **GRAMIN KRISHI MAUSAM SEWA (GKMS)****AGRO-METEOROLOGY DIVISION****Dr. Rajendra Prasad Central Agricultural University, Pusa****Samastipur, Bihar -848 125** |
| **Bulletin No. 43****Date: Friday, 31 May,2019** | **F:\15349550_1863725520538190_1704492238980604982_n.jpg** |  |

**Weather during the previous forecast period**

According to meteorological data recorded at Agro meteorological Observatory, Pusa (Bihar), average maximum and minimum temperature were 38.8°C and 26.6°C, respectively. Average relative humidity was 78 percent at 0700 hrs and 52 percent at 1400 hrs. Soil temperature at 5 cm depth was 31.4°C at 0700 hrs and 39.8°C at 1400 hrs. Average wind speed, daily sunshine hours and average daily evaporation were 6.2km/hr, 8.7hours and 6.0mm, respectively. At the center, about 13.4 mm rainfall has been recorded.

**Medium Range Weather Forecast**

**(29 May-2 June, 2019)**

 **(West Champaran)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Weather parameters** | **1****June** | **2****June** | **3****June** | **4****June** | **5****June** | **Remarks** |
| **Rainfall(mm)** | **2** | **5** | **10** | **5** | **3** | **Light rainfall,****Thunderstorm & lightning accompanied with gusty winds at 1-2 places during 1-3 June** |
| **Max. T (°C)** | **34** | **35** | **35** | **37** | **37** | **-** |
| **Mini. T (°C)** | **23** | **23** | **24** | **25** | **26** |
| **Cloud cover (okta)** | **3** | **5** | **5** | **3** | **4** | **Partially cloudy sky** |
| **Max Relative Humidity (%)** | **80** | **80** | **80** | **70** | **70** |  |
| **Min Relative Humidity (%)** | **45** | **45** | **45** | **35** | **35** |  |
| **Wind speed (kmph)** | **15** | **15** | **15** | **10** | **15** |  |
| **Wind direction(deg)** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** | **Easterly** |

**Advisory for the farmers**

|  |  |  |
| --- | --- | --- |
| **Crop** | **Phenophases** | **Advisory (Based on weather forecast)** |
| As light rainfall has happened over some places of North Bihar districts yesterday. In view of rainfall forecast, farmers are advised to take precaution in agricultural operations such as spraying, harvesting. |
| *Rabi* Maize/Mung bean/Urd bean  | Harvesting | In view of light rainfall during 1-3 June, farmers are advised to take utmost care in the harvesting, threshing of *rabi* maize. Keep the harvested produce in the secure place to prevent it from damage. Picking of matured pods of mung bean and urd bean is advised at the earliest. |
| *Kharif* Paddy | Land preparation/Nurserysowing | Nursery sowing of long duration varieties of paddy such as *Rajshree, Rajendra sweta, Rajendra mansuri, BPT-5204, Swarna, Satyam* and *Kishori* is advised. Before sowing, seed should be treated with Carbendazim@1.5 gram/kg of seed. Farmers are advised to arrange the seeds from reliable sources. |
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| Vegetables | Flowering/Fruiting | Intercultural operation is advised in vegetables such as lady’s finger, pumpkin, cucumber, sponge gourd, bottle gourd etc Monitoring is also advised for infestation of insect-pest and diseases in the vegetables. |
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| Livestock | **-** |  Vaccination of cattles is advised against Anthrax, Black Quarter and H.S. diseases.  |

**(A. Sattar)**

**(Nodal Officer)**